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CONSTRUCTS TARGETING HER2****Publication Classification**(71) Applicant: **Zymeworks Inc.**, Vancouver (CA)(72) Inventors: **Nina E. Weisser**, Delta (CA); **Gordon Yiu Kon NG**, Vancouver (CA); **Grant Raymond Wickman**, Vancouver (CA); **Surjit Bhimarao Dixit**, Richmond (CA); **Eric Escobar-Cabrera**, Vancouver (CA); **Mario Sanches**, Vancouver (CA)(51) **Int. Cl.****C07K 16/32** (2006.01)**A61K 47/68** (2006.01)**A61K 39/395** (2006.01)**A61K 45/06** (2006.01)**C07K 16/30** (2006.01)**G01N 33/574** (2006.01)(52) **U.S. Cl.**CPC **C07K 16/32** (2013.01); **A61K 47/6803** (2017.08); **A61K 47/6851** (2017.08); **A61K 47/6855** (2017.08); **A61K 47/6869** (2017.08); **A61K 2039/505** (2013.01); **A61K 45/06** (2013.01); **C07K 16/3015** (2013.01); **C07K 16/3069** (2013.01); **G01N 33/57492** (2013.01); **A61K 39/39558** (2013.01)(21) Appl. No.: **17/184,508**(22) Filed: **Feb. 24, 2021****Related U.S. Application Data**

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(57)

ABSTRACT

Provided herein are biparatopic antigen-binding constructs that specifically bind HER2. The biparatopic antigen-binding constructs comprise one antigen-binding moiety that binds to ECD2 of HER2, a second antigen-binding moiety that binds to ECD4 of HER2, and an Fc. At least one of the antigen-binding moieties is an scFv. The biparatopic antigen-binding constructs can be used in the treatment of cancer.

Specification includes a Sequence Listing.